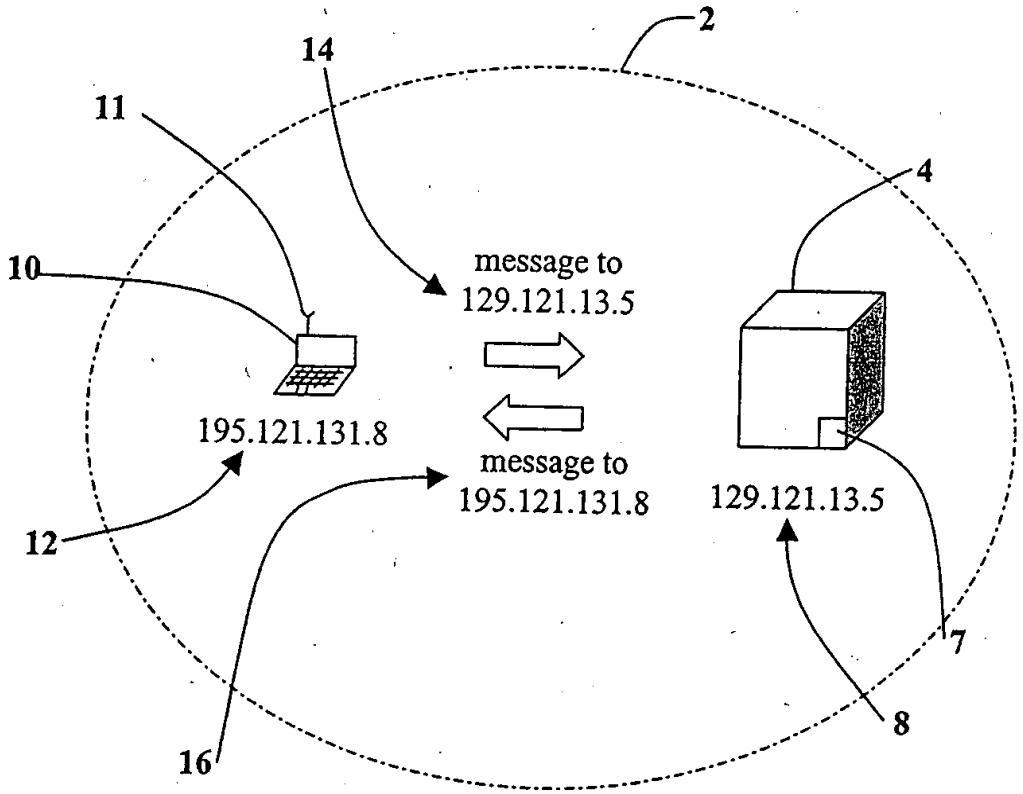
2
14
11
4
10
message to
129.121.13.5
195.121.131.8
message to
195.121.131.8
129.121.13.5
12
16
7
8

Fig. 1

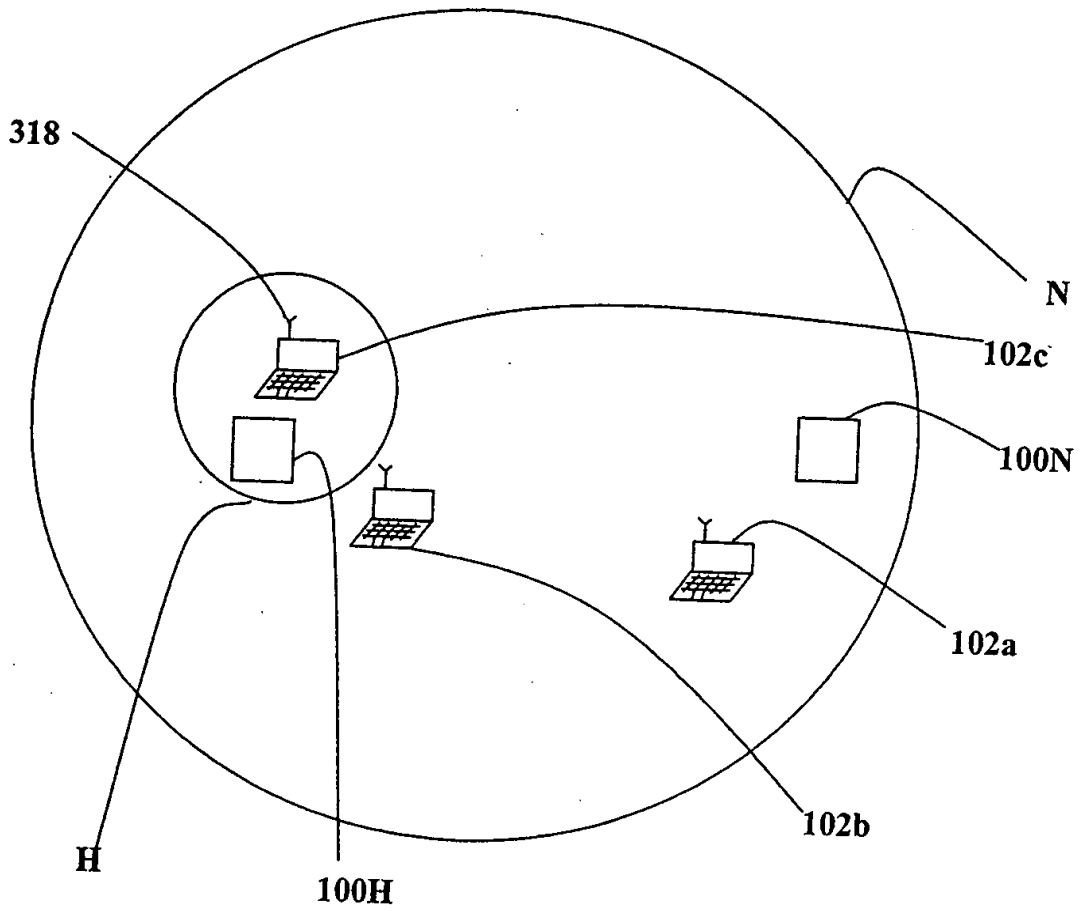

Fig. 2

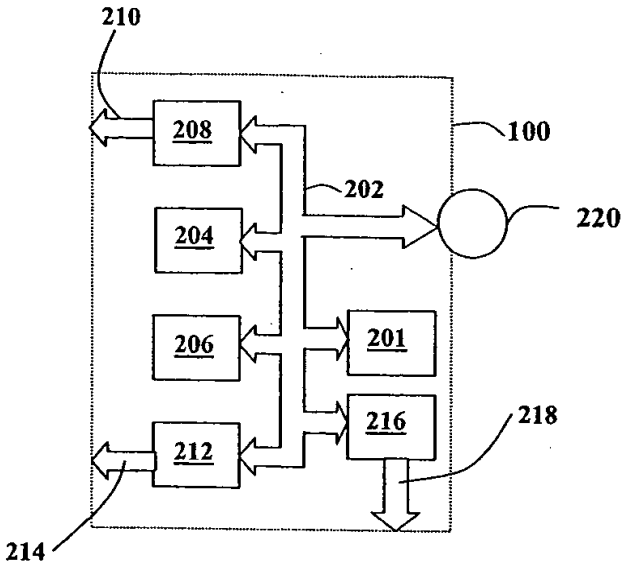
210
208
100
202
220
204
206
201
216
218
212
214

Fig. 3

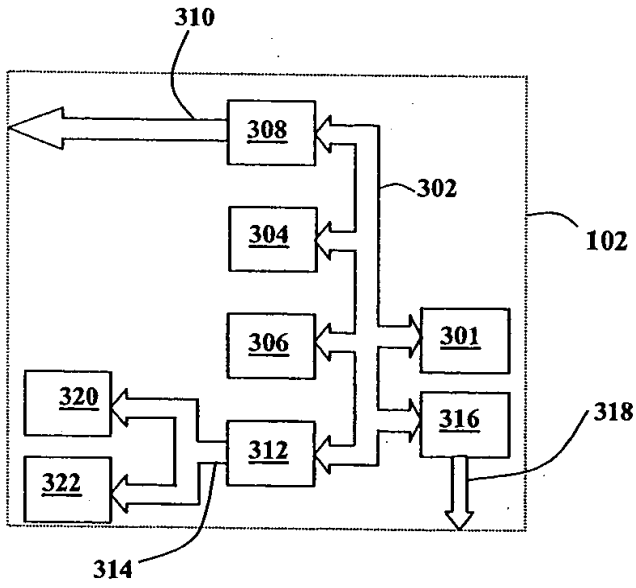
310
308
302
304
102
306
301
320
316
318
312
322
314

Fig. 4

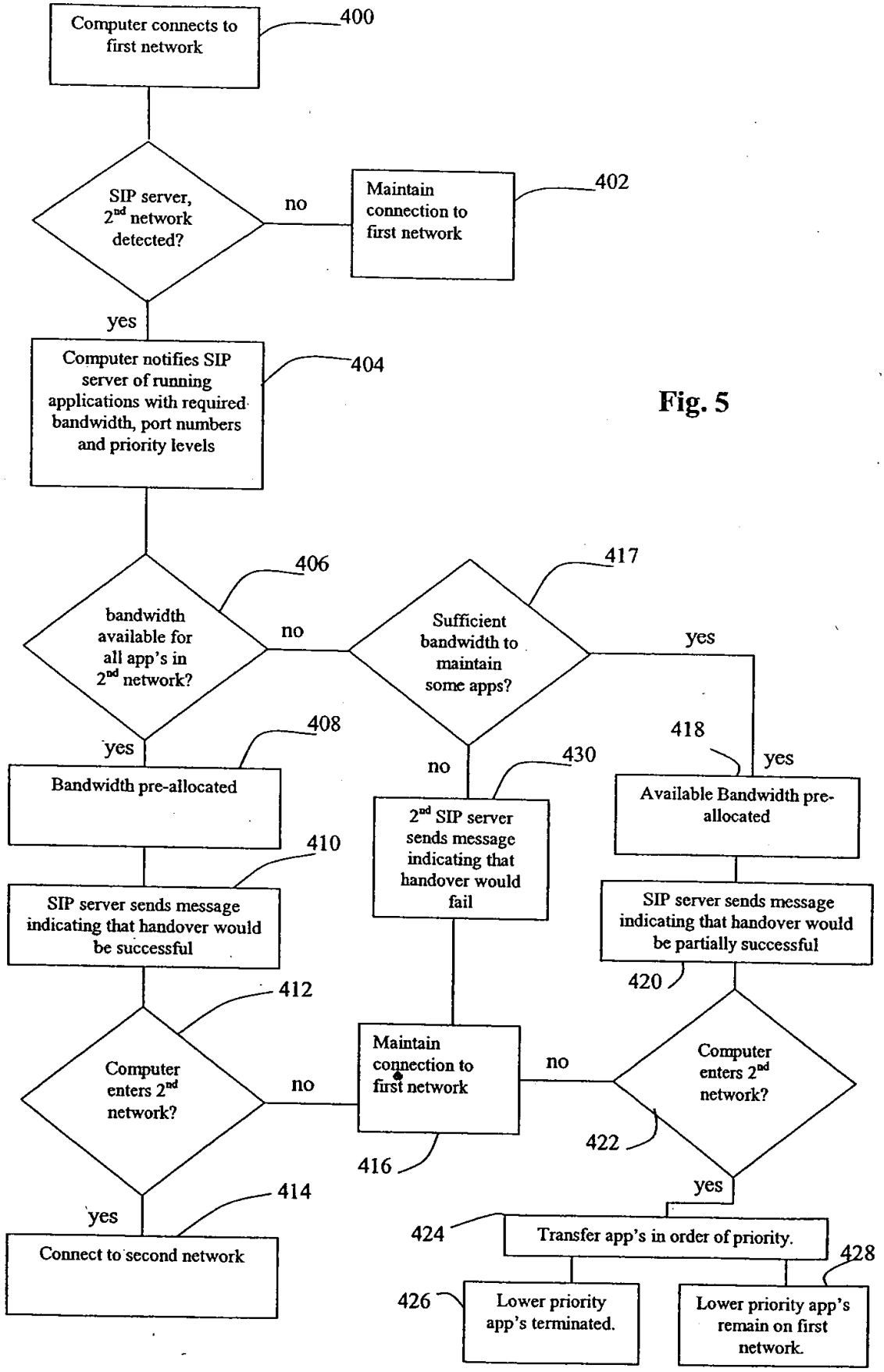
Computer connects to first network
400
SIP server, 2nd network detected?
no
Maintain connection to first network
402
yes
Computer notifies SIP server of running applications with required bandwidth, port numbers and priority levels
404
bandwidth available for all app's in 2nd network?
406
no
Sufficient bandwidth to maintain some apps?
417
yes
yes
408
Bandwidth pre-allocated
no
430
2nd SIP server sends message indicating that handover would fail
418
yes
Available Bandwidth pre-allocated
410
SIP server sends message indicating that handover would be successful
SIP server sends message indicating that handover would be partially successful
420
412
Computer enters 2nd network?
no
Maintain connection to first network
no
Computer enters 2nd network?
422
416
yes
414
yes
424
Transfer app's in order of priority.
428
Connect to second network
426
Lower priority app's terminated.
Lower priority app's remain on first network.

Fig. 5

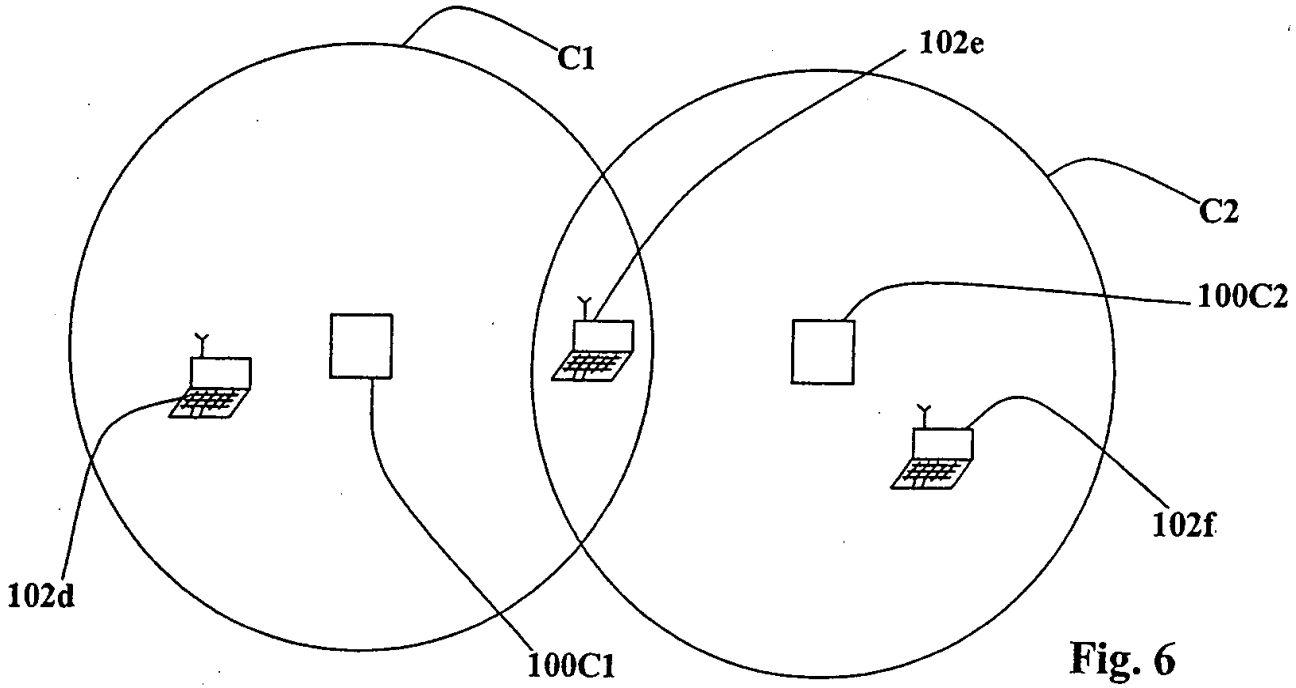

Fig. 6

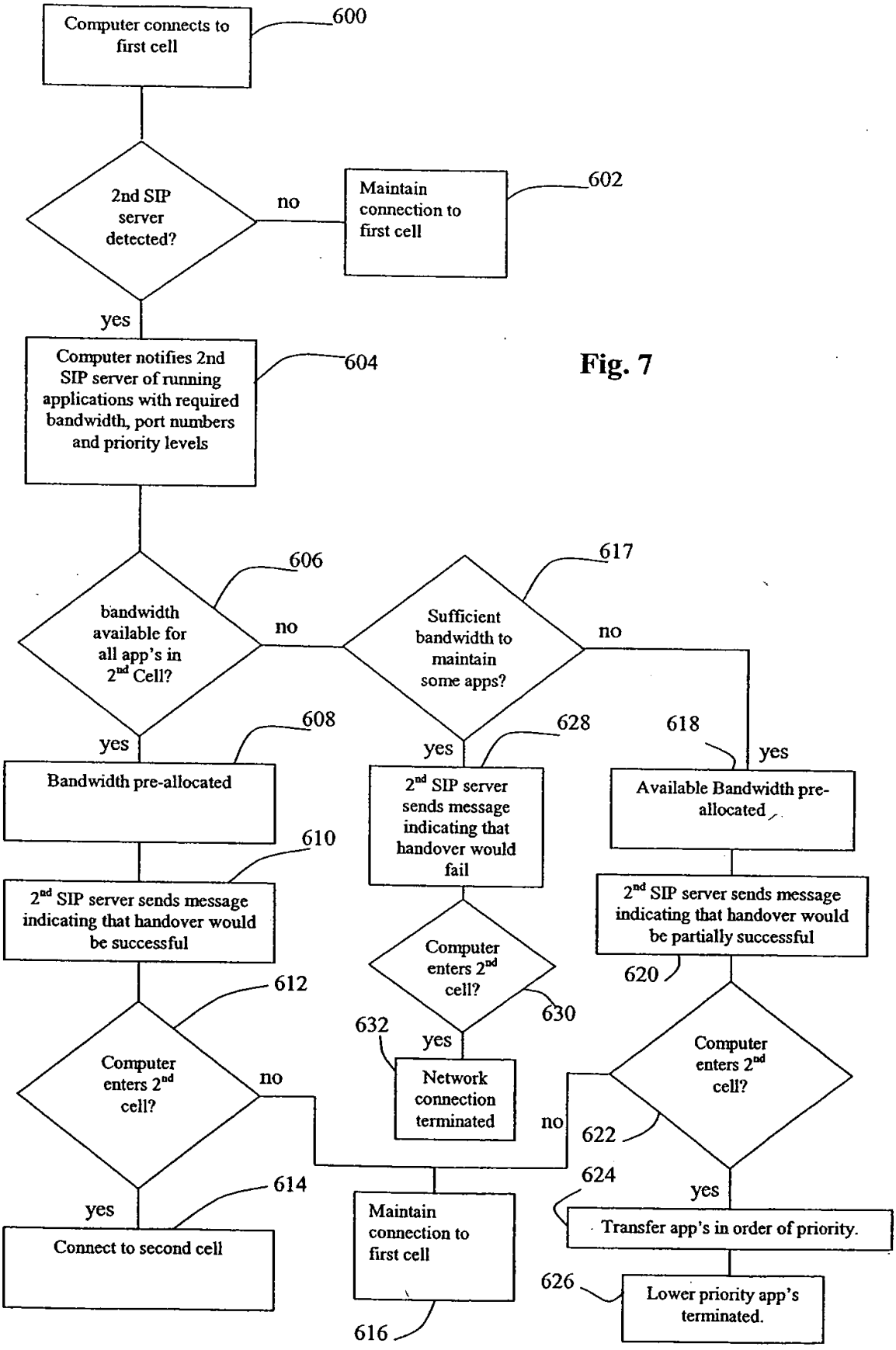
Computer connects to first cell
600
2nd SIP server detected?
no
Maintain connection to first cell
602
yes
Computer notifies 2nd SIP server of running applications with required bandwidth, port numbers and priority levels
604
606
bandwidth available for all app's in 2nd Cell?
no
617
Sufficient bandwidth to maintain some apps?
no
yes
608
Bandwidth pre-allocated
yes
628
2nd SIP server sends message indicating that handover would fail
618
yes
Available Bandwidth pre-allocated
610
2nd SIP server sends message indicating that handover would be successful
2nd SIP server sends message indicating that handover would be partially successful
620
612
Computer enters 2nd cell?
no
Computer enters 2nd cell?
630
632
yes
Network connection terminated
Computer enters 2nd cell?
no
622
624
yes
Transfer app's in order of priority.
614
yes
Connect to second cell
Maintain connection to first cell
616
626
Lower priority app's terminated.

Fig. 7

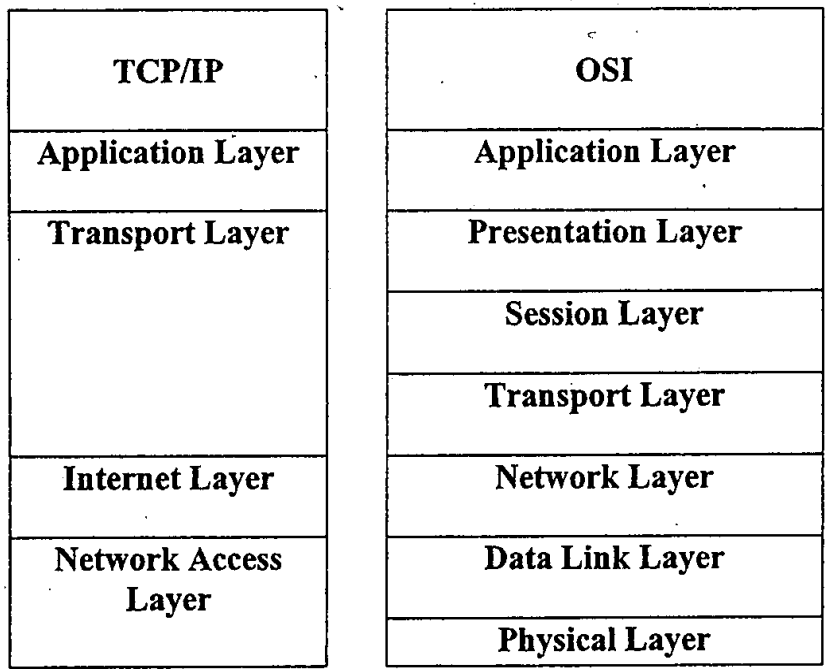
TCP/IP
Application Layer
Transport Layer
Internet Layer
Network Access Layer
OSI
Application Layer
Presentation Layer
Session Layer
Transport Layer
Network Layer
Data Link Layer
Physical Layer

Fig. 8